

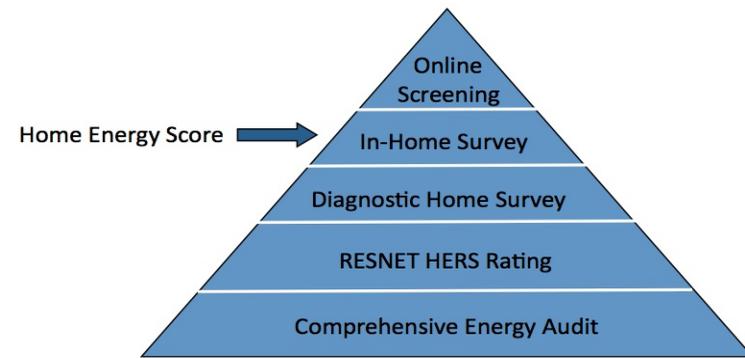
Residential Building Energy Rating Options for Vermont (9/13/11)

Feature	Online Screening			In Home Survey / Diagnostic Home Survey			RESNET HERS Rating
Tool	EPA Home Energy Yardstick	EnergySavvy	Energy Measure (EM) View	Energy Measure (EM) Home	Home Energy Score (HES)	Energy Performance Score (EPS)	REM/Rate
Company	U.S. EPA	EnergySavvy	Conservation Services Group	Conservation Services Group	U.S. Department of Energy	Earth Advantage	Architectural Energy Corp.
Web Site	http://www.energystar.gov/index.cfm?c=home_improvement_home_improvement_index_tools	www.energysavvy.com	www.energymeasure.com	www.energymeasure.com	www1.eere.energy.gov/buildings/homeenergyscore	www.earthadvantage.org/programs/homes/energy-performance-score/	www.archenergy.com/products/remrate
Description	Simple, on-line tool that provides a score and options for goal-setting and recommendations	On-line, simple tool that provides score, recommendations, links to local contractors and immediate follow-up	New integrated suite of tools starting with simple on-line tool with ability for assessor to pick up from initial customer inputs and drill deeper in any area. Offers score and recommendations.	New integrated suite of tools starting with simple on-line tool with ability for assessor to pick up from initial customer inputs and drill deeper in any area. Offers score and recommendations.	Simplified national tool being piloted in 11 communities (with mixed results) delivered by qualified assessors. Offers score and recommendations.	Simplified inputs with integrated website makes recommendations, leads to on-line bids. Closest scoring to MPG equivalent.	Detailed comprehensive assessment of home, typically used with new construction. 0 = zero energy home, 100 = 2004 code home, >100 scores for homes that use more than 2004 code home
Number of Inputs	~10	~30	~30	~100?	~40	~35	~150
Scale	1-10	Customizable, 0-100	Customizable, 1-10	Customizable, 1-10	1-10	0-200+ (actual MMBTUs)	0-200+
Typical 1970 House Score	4	50	4	4	5	150	130
Typical New Home	9	80	8	8	9	70	80

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Score Basis	Compares your energy use to other “similar homes across the country”	Energy analysis engine allows for any score type generation	Sophisticated energy analysis engine allows for any score type generation	Sophisticated energy analysis engine allows for any score type generation	Compares rated home to energy use of regional homes broken into bins from RECS database	Absolute score of total MMBtu consumption	Normalized comparison of rated home to a reference home that is the geometric twin with 2004 code energy features
Site or Source Based	Source	Site	Site	Site	Source	Site	Site
Normalized Based on Home Size or Absolute	Unknown	Unknown	User has the choice	User has the choice	Normalized	Absolute	Normalized
Accuracy	Unknown	Blasnik-advised, so it should be pretty accurate	Blasnik-advised, so it should be pretty accurate	Blasnik-advised, so it should be pretty accurate	Questionable results are being fixed	Blasnik-advised, so it should be pretty accurate	Reasonable for new homes, deviates for existing buildings
Diagnostics (i.e., use of blower door / duct blaster)	None	None	None required, but can be added for more accuracy	None required, but can be added for more accuracy	Blower door required	None required, but can be added for more accuracy	Blower door/duct blaster required to override default values
Asset or Operational	Operational	Asset	Asset	Asset	Asset	Asset	Asset
Who completes	Homeowner	Homeowner	Homeowner, assessor or contractor	Trained assessor	Qualified assessor	Qualified assessor	HERS Rater
Capable of Generating a HERS Score	No	No	No	Not now, but maybe later	No	No	Yes
Local Control	No	Somewhat (can embed in existing website such as	Somewhat	Somewhat	No	Somewhat	No

		efficiencyvermont.com)					
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Flexible/layered	No	No	Yes, significantly	Yes, significantly	No	No	Detailed or Simple
Recommends Improvements?	Not automatically, but will provide generic recommendations	Yes	Yes	Yes	Yes	Yes	No
Integrated System from Assessment to Recommendations	No	Yes	Yes	Yes	No	Yes	No
Cost to User Note: does not include professional assessor fees)	Free to web user	Free to web user	Free to web user	Program (EVT) would need to determine	Free	Program (EVT) would need to determine	\$800
Program Costs	N/A	\$15-\$100k+, depending on set-up factors, plus on-going maintenance fees, as needed	If just EMView, would be less than full suite cost (see EMHome)	\$200-\$300k initial set-up cost, \$10k/month service fee for full suite	Free (?)	\$120k for set-up, plus ~\$100k/year (based on volume, number of auditors and transactions; could potentially negotiate)	EVT owns local license
Greenhouse Gas Rating	Yes	No	Optional	Optional	No	Yes	Optional

HEST vs. HERS Granularity



Time of Sale Energy Labeling of Homes: A Concept Paper, Philip Fairey (FSEC), Home Energy Magazine, July 2010 Issue.